

HIPPI-6400 To HIPPI-800 IP Translation

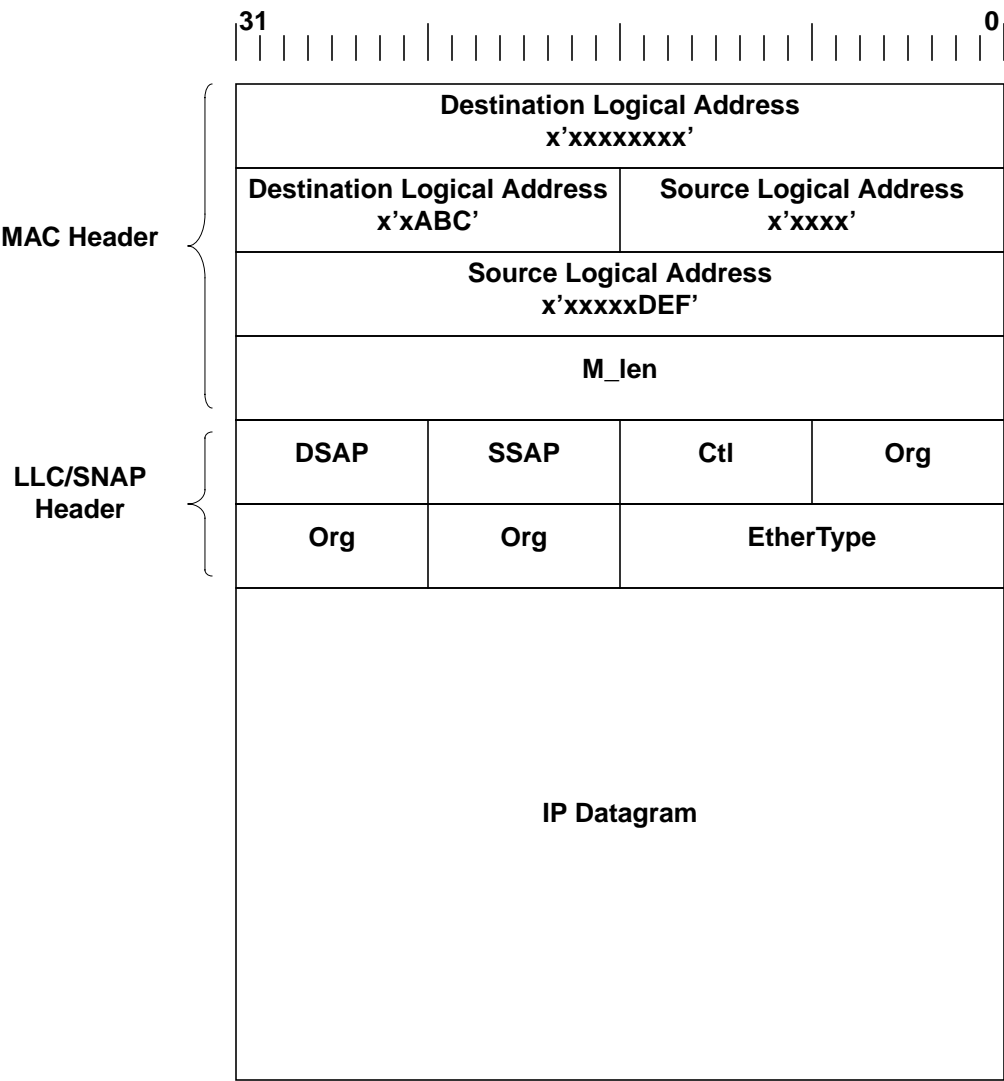
(Normative Annex)

Since HIPPI-6400-PH and IP Over HIPPI both contain the LLC/SNAP Header directly in front of the IP Datagram payload, the only translation required is between the HIPPI-6400-PH MAC Header and the HIPPI I-Field, FP Header, and LE Field.

When translating from IP Over HIPPI to HIPPI-6400-PH the I-Field, FP Header, and LE Field are discarded and a MAC header is created as shown in figure 0-1.

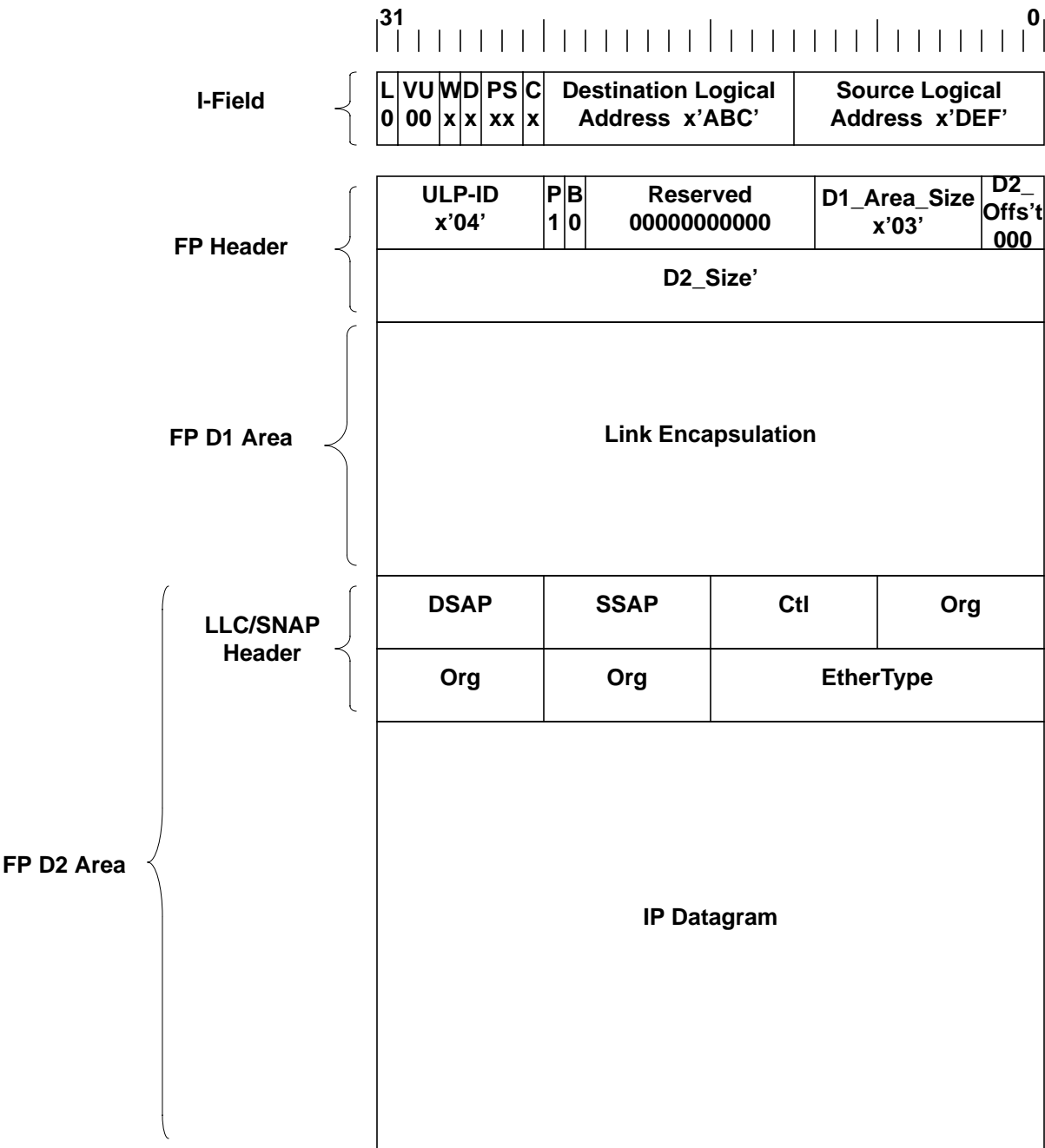
When translating from HIPPI-6400-PH to IP Over HIPPI the MAC Header is discarded and the I-Field, FP Header, and LE Field are created as shown in figure 0-2 and figure 0-3.

Figure 0-1 IP Over HIPPI-6400-PH



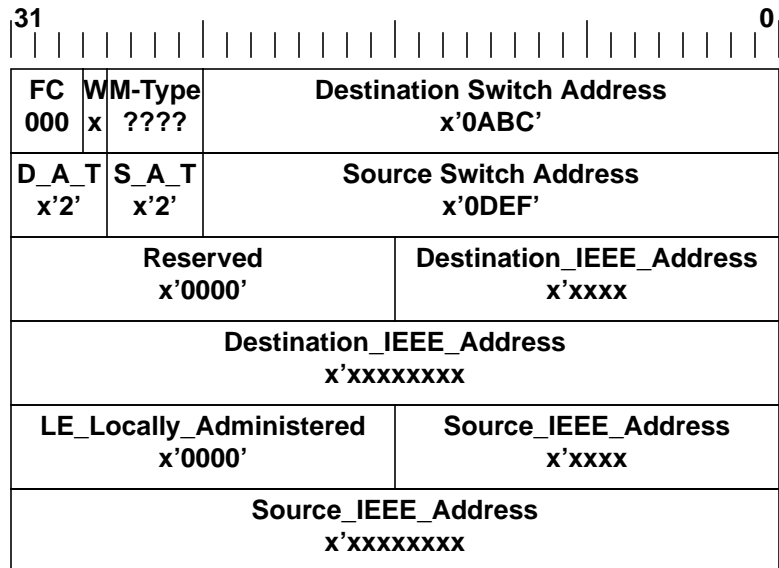
- 1. ABC = Destination address to/from HIPPI I-Field
- 2. DEF = Source address to/from HIPPI I-Field
- 3. M_Len = HIPPI FP Header D2_Size -24 Bytes

Figure 0-2 IP Over HIPPI-800



- 1. ABC = Destination address from HIPPI-6400 MAC Header
- 2. DEF = Source address from HIPPI-6400 MAC Header
- 3. D2_Size = HIPPI-6400-PH M_Len + 24 bytes

Figure 0-3 LE Field



1. ABC = Destination address from HIPPI-6400 MAC Header
2. DEF = Source address from HIPPI-6400 MAC Header
3. Destination_IEEE_Address copied from HIPPI-6400 MAC Destination Logical Address
4. Source_IEEE_Address copied from HIPPI-6400 MAC Source Logical Address
5. Since HIPPI-6400 does not support source routing, D_A_T and S_A_T must be x'2'

OPEN ISSUE:

What needs to be put in the M-Type field? The translator could look at the EtherType field to determine if this is ARP, RARP, or something else but the translator does not know if this is a request or response.